

Exhibit D

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Twitter Image Scraper

Scrape Twitter images and collect data such as user name, Twitter handle, following/followers, location, URL, date of creation, and more.

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Use Bright Data's [Web Scraper IDE](#),
or purchase a [Twitter dataset](#)

<https://brightdata.com/products/web-scraper/twitter/image>

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Twitter Image Scraper use cases

Scrape Twitter images for social media monitoring

Scrape Twitter images for brand monitoring

Scrape Twitter images for trend analytics

Scrape Twitter images for sentiment analysis

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Twitter Image Scraper Overview

- ✓ Easy data scraping for beginners
- ✓ All-in-One platform integrates with our industry-leading proxies
- ✓ Utilizes proprietary technology to unlock sites
- ✓ Infinitely scalable – collect as much data as you need quickly and completely
- ✓ Fully compliant with industry best practices and privacy regulations (GDPR, CCPA)

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Output examples

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Collect profile data by profile URL

Twitter tweets

Collect tweets by tweet URL

Twitter keyword or hashtag

Collect tweets by keyword or #hashtag -
DEMO

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Twitter keyword or hashtag

Sample Input

search

#love

Sample Output

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```
"id_str": "1417746521731133443",
"full_text": "All my heart to this movie 🌟👉❤️ #love #selfcare
#WEALLHUMAN https://t.co/m1lwyJNGF4",
"truncated": false,
"source": "\u003Ca
href=\u0022http://twitter.com/download/iphone\u0022
rel=\u0022nofollow\u0022\u003ETwitter for iPhone\u003C/a\u003E",
"in_reply_to_status_id": null,
"in_reply_to_status_id_str": null,
"in_reply_to_user_id": null,
"in_reply_to_user_id_str": null,
"in_reply_to_screen_name": null,
"user_id_str": "1414891075982880770",
"geo": null,
"coordinates": null,
"contributors": null,
```

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Twitter tweets

Sample Input

url

```
https://twitter.com/billieeilish/status/1288974168399069185
```

Sample Output

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```
"1448695234561380352"
],
"post_url":
"https:\\\\twitter.com\\NYUABetterTech\\status\\1448695234561380352",
"post_text": "Happening now! Join @NaDomagala, @maria_axente, Dave
Tarrant, Olivia Gambelin and hear responsible technology professionals from
different sectors sharing what skills they have found the most useful when
working in technology and data ethics.",
"post_time": "Thu Oct 14 17:00:34 +0000 2021",
"retweets": 0,
"comments": 0,
"likes": 1,
"status": "Ok"
}
```

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Twitter profile

Sample Input

url

<https://twitter.com/billieeilish>

number_of_tweets

70

Sample Output

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```
"isVerified": true,  
"bio": "Newton is a very handsome boy.",  
"location": "California, USA",  
"following": 2067,  
"followers": 17192867,  
"website_url": "http:\\\\spotify.link\\NetflixHub",  
"posts": 43328,  
"media_count": 10778,  
"profile_background_image_url":  
"https:\\\\pbs.twimg.com\\profile_banners\\16573941\\1648216530",  
"profile_image_url":  
"https:\\\\pbs.twimg.com\\profile_images\\1235992718171467776\\PaX2Bz1S_nor  
"created": "Fri Oct 03 04:16:17 +0000 2008",  
"handle": "netflix",  
"collected_number_of_posts": 20,
```

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Web Scraper IDE Features

Leave your scraping limitations behind with our hosted cloud solution

Pre-made web scraper templates

Get started quickly and adapt existing code to your specific needs

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Watch your code as you build it and debug errors in your code quickly

Built-in debug tools

Debug what happened in a past crawl to understand what needs fixing in the next version

Browser scripting in JavaScript

Handle your browser control and parsing codes with simple procedural JavaScript

Ready-made functions

Capture browser network calls, configure a proxy, extract data from lazy loading UI, and more!

Easy parser creation

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Auto-scaling infrastructure

You don't need to invest in the hardware or software to manage an enterprise-grade web scraper

Integration

Emulate a user in any geo-location with built-in fingerprinting, automated retries, CAPTCHA solving, and more.

Built-in debug tools

Trigger crawls on a schedule or by API, and connect our API to major storage platforms

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Everything you need from a web scraping solution

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Want to learn more?

Talk to an expert to discuss your data collection needs and see our platform in action.

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